

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	13532	planar near9 (sensor or detector)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
2	BRS	L2	70	1 and ground near8 plane near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
3	BRS	L3	0	2 and temperature with electric\$8 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
4	BRS	L4	2762	ground near8 plane near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
5	BRS	L5	51	4 and temperature with electric\$8 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
6	BRS	L6	10	5 and surface near8 area with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
7	BRS	L7	10	5 and surface near8 area same electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
8	BRS	L8	416	4 and heat\$4 with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
9	BRS	L9	16	2 and heat\$4 with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
10	BRS	L10	74530	ground near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
11	BRS	L11	907	10 and temperature with electric\$8 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
12	BRS	L12	1815	10 and temperature same electric\$8 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
13	BRS	L13	476	11 and heat\$4 with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
14	BRS	L14	874	12 and heat\$4 with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
15	BRS	L15	88225	ground with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
16	BRS	L16	1036	15 and temperature with electric\$8 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
17	BRS	L17	2143	15 and temperature same electric\$8 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
18	BRS	L18	10864	15 and heat\$4 with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
19	BRS	L19	1036	16 and temperature same electric\$8 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
20	BRS	L20	160	16 and surface near8 area same electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
21	BRS	L21	160	16 and surface near8 area same electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
22	BRS	L22	107	16 and surface near8 area with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
23	BRS	L23	35405	15 and (ground or power) near8 (terminal or lead or contact)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
24	BRS	L24	226	8 and (ground or power) near8 (terminal or lead or contact)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
25	BRS	L25	495	1 and electrical near8 resistance near8 (measur\$5 or detect\$5 or sens\$5 or monitor\$5)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
26	BRS	L26	2	24 and electrical near8 resistance near8 (measur\$5 or detect\$5 or sens\$5 or monitor\$5)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
27	BRS	L27	11	2 and temperature near8 (measur\$5 or detect\$5 or sens\$5 or monitor\$5) with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
28	BRS	L28	27	2 and temperature near8 (measur\$5 or detect\$5 or sens\$5 or monitor\$5) same electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
29	BRS	L29	1605	15 and temperature near8 (measur\$5 or detect\$5 or sens\$5 or monitor\$5) with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
30	BRS	L30	3174	15 and temperature near8 (measur\$5 or detect\$5 or sens\$5 or monitor\$5) same electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
31	BRS	L31	555	29 and capacitor	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
32	BRS	L32	1248	30 and capacitor	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
33	BRS	L33	513	15 and ac near8 signal near8 source	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
34	BRS	L34	1	2 and ac near8 signal near8 source	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
35	BRS	L35	6	2 and ac near8 signal	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	39128	oxygen near8 (sensor or detector)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
2	BRS	L2	28	1 and ground near8 plane near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
3	BRS	L3	0	2 and temperature with electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
4	BRS	L4	2	2 and temperature same electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
5	BRS	L5	492	1 and ground near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
6	BRS	L6	29	5 and temperature with electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
7	BRS	L7	45012	oxygen with (sensor or detector)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
8	BRS	L8	35	7 and ground near8 plane near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
9	BRS	L9	0	8 and temperature with electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
10	BRS	L10	2	8 and temperature same electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
11	BRS	L11	12932	planar near8 (sensor or detector)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
12	BRS	L12	68	11 and ground near8 plane near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
13	BRS	L13	0	12 and temperature with electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
14	BRS	L14	0	12 and temperature same electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
15	IS&R	L15	4306	((422/83,98,82.01,82.02,82. 04) or (436/136) or (204/425,426,431)).CCLS.	US- PGPUB; USPAT
16	BRS	L16	8	15 and ground near8 plane near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
17	BRS	L17	170	15 and ground near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
18	BRS	L18	8	17 and temperature with electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
19	BRS	L19	14	17 and temperature same electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
20	BRS	L20	607	15 and plan\$5 near8 (sensor or detector)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
21	BRS	L21	321	15 and planar near8 (sensor or detector)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
22	BRS	L22	16	21 and ground near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
23	BRS	L23	2	22 and surface near8 area with electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
24	BRS	L24	455	15 and temperature same electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
25	BRS	L25	280	15 and temperature with electric\$4 near8 resist\$4	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	17099	planar with (detector or sensor)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
2	BRS	L2	71	1 and pump near8 cell same reference near8 cell	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
3	BRS	L3	4	2 and ground near8 plane near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

	Type	L #	Hits	Search Text	DBs
4	BRS	L4	1	3 and (insulation or isolation)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
5	BRS	L5	7	2 and ground near8 electrode	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B
6	BRS	L6	1	5 and (insulation or isolation)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TD B

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NEWS	4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	6	JAN 22	CA/CAPplus updated with revised CAS roles
NEWS	7	JAN 22	CA/CAPplus enhanced with patent applications from India
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NEWS	26	APR 30	CA/CAPplus enhanced with 1870-1889 U.S. patent records
NEWS	27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	28	MAY 01	New CAS web site launched
NEWS	29	MAY 08	CA/CAPplus Indian patent publication number format defined
NEWS	30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	31	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	32	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	33	MAY 21	CA/CAPplus enhanced with additional kind codes for German patents
NEWS	34	MAY 22	CA/CAPplus enhanced with IPC reclassification in Japanese patents
NEWS EXPRESS			NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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=> s planar (8w) oxygen (8w) (sens? or detect? or measur? or monitor?)
2 FILES SEARCHED...

L1 96 PLANAR (8W) OXYGEN (8W) (SENS? OR DETECT? OR MEASUR? OR MONITOR?)
)

=> s l1 and ground (8w) plane (8w) electrode

L2 1 L1 AND GROUND (8W) PLANE (8W) ELECTRODE

=> display l2 1 ibib abs

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:488675 CAPLUS

DOCUMENT NUMBER: 139:45962

TITLE: Planar oxygen sensor and

a method for measuring its temperature

INVENTOR(S): Chen, David Kwo-shyong; Wallace, David P.; Wang, Da
Yu; Symons, Walter T.; Kikichi, Paul C.; Lin, Yingije;
Thrun, Lora B.; Shost, Mark A.; Ralph, Joseph G.

PATENT ASSIGNEE(S): Delphi Technologies, Inc., USA

SOURCE: Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1321764	A1	20030625	EP 2002-79941	20021127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2003119196	A1	20030626	US 2001-29049	20011220
PRIORITY APPLN. INFO.:		US 2001-29049	A	20011220
AB A planar oxygen sensor having a pump cell, a				

reference cell, a sensor chamber and a heating device, a ground plane electrode including a sensing portion having a 1st sense lead and a 2nd sense lead and a measuring portion having a 1st measuring lead and a 2nd measuring lead, wherein the 1st measuring lead and the 2nd measuring lead have increased surface area relative to said sensing portion such that the resistance between the 1st measuring lead and the 2nd measuring lead is reduced and wherein the 1st measuring lead is disposed so as to be communicated with the 1st sense lead and the 2nd measuring lead is disposed so as to be communicated with the 2nd sense lead. A method for measuring the temperature in a planar oxygen sensor having a pump cell, a reference cell, a sensor chamber, a heating device and a ground plane electrode that includes a sensing portion having a 1st sense lead and a 2nd sense lead and a measuring portion having a 1st measuring lead and a 2nd measuring lead. The method includes obtaining a temperature measurement device, communicating the temperature measurement device with the 1st measuring lead and the 2nd measuring lead, operating the planar oxygen sensor so as to cause the heating device to heat the planar oxygen sensor, and measuring the resistance between the 1st measuring lead and the 2nd measuring lead.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l1 and ground (s) electrode

L3 1 L1 AND GROUND (S) ELECTRODE

=> s planar (8w) (sens? or detect? or measur? or monitor?)

2 FILES SEARCHED...

L4 11930 PLANAR (8W) (SENS? OR DETECT? OR MEASUR? OR MONITOR?)

=> s l4 and heat? (s) ground (8w) electrode

L5 1 L4 AND HEAT? (S) GROUND (8W) ELECTRODE

=> s l4 and temperature (s) electric? (8w) resist? (s) ground (8w) electrode

L6 0 L4 AND TEMPERATURE (S) ELECTRIC? (8W) RESIST? (S) GROUND (8W) ELECTRODE

=> s l4 and temperature (s) electric? (8w) resist? (p) ground (8w) electrode
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH

FIELD CODE - 'AND' OPERATOR ASSUMED 'RESIST? (P) GROUND'

2 FILES SEARCHED...

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH

FIELD CODE - 'AND' OPERATOR ASSUMED 'RESIST? (P) GROUND'

L7 0 L4 AND TEMPERATURE (S) ELECTRIC? (8W) RESIST? (P) GROUND (8W) ELECTRODE

=> s ground (8w) plane (8w) electrode

L8 91 GROUND (8W) PLANE (8W) ELECTRODE

=> s l8 and temperature (s) electric? (8w) resist? (s) ground (8w) electrode

L9 0 L8 AND TEMPERATURE (S) ELECTRIC? (8W) RESIST? (S) GROUND (8W) ELECTRODE

=> s l8 and temperature (s) electric? (8w) resist? (s) electrode

L10 0 L8 AND TEMPERATURE (S) ELECTRIC? (8W) RESIST? (S) ELECTRODE

=> s l8 and heat? (s) electrode

L11 4 L8 AND HEAT? (S) ELECTRODE

=> display l11 1-4 ibib abs

DOCUMENT NUMBER: 139:45962
 TITLE: Planar oxygen sensor and a method for measuring its temperature
 INVENTOR(S): Chen, David Kwo-shyong; Wallace, David P.; Wang, Da Yu; Symons, Walter T.; Kikichi, Paul C.; Lin, Yingije; Thrun, Lora B.; Shost, Mark A.; Ralph, Joseph G.
 PATENT ASSIGNEE(S): Delphi Technologies, Inc., USA
 SOURCE: Eur. Pat. Appl., 13 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1321764	A1	20030625	EP 2002-79941	20021127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2003119196	A1	20030626	US 2001-29049	20011220
PRIORITY APPLN. INFO.:			US 2001-29049	A 20011220

AB A planar oxygen sensor having a pump cell, a reference cell, a sensor chamber and a heating device, a ground plane electrode including a sensing portion having a 1st sense lead and a 2nd sense lead and a measuring portion having a 1st measuring lead and a 2nd measuring lead, wherein the 1st measuring lead and the 2nd measuring lead have increased surface area relative to said sensing portion such that the resistance between the 1st measuring lead and the 2nd measuring lead is reduced and wherein the 1st measuring lead is disposed so as to be communicated with the 1st sense lead and the 2nd measuring lead is disposed so as to be communicated with the 2nd sense lead. A method for measuring the temperature in a planar oxygen sensor having a pump cell, a reference cell, a sensor chamber, a heating device and a ground plane electrode that includes a sensing portion having a 1st sense lead and a 2nd sense lead and a measuring portion having a 1st measuring lead and a 2nd measuring lead. The method includes obtaining a temperature measurement device, communicating the temperature measurement device with the 1st measuring lead and the 2nd measuring lead, operating the planar oxygen sensor so as to cause the heating device to heat the planar oxygen sensor, and measuring the resistance between the 1st measuring lead and the 2nd measuring lead.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 4 COMPENDEX COPYRIGHT 2007 EEI on STN

ACCESSION NUMBER: 1984(1):3822 COMPENDEX
 DOCUMENT NUMBER: 8401578
 ; *8411260

TITLE: RELATIONSHIP OF TEMPERATURE PROFILES TO FREQUENCY DURING INTERSTITIAL HYPERTHERMIA.

AUTHOR: Mulligan, Andrew J. (Medical Coll of Ohio, Toledo, Ohio, USA); Panjehpour, Masoud

SOURCE: Med Instrum v 17 n 4 Jul-Aug 1983 p 303-306

SOURCE: Med Instrum v 17 n 4 Jul-Aug 1983 p 303-306

CODEN: MLISBY ISSN: 0090-6689

PUBLICATION YEAR: 1983

LANGUAGE: English

AN 1984(1):3822 COMPENDEX DN 8401578; *8411260

AB Regional hyperthermia is currently being investigated as a potential adjuvant to radiation therapy treatment of malignant disease. Since tumor response is directly related to treatment temperature, thermal distributions within tumors and surrounding normal tissue must be predictable under various conditions. Normal canine muscle was

heated to approximately 42 degree C with radiofrequency current fields over the frequency range of 500 kHz to 300 MHz. With two rows of four interstitially implanted needles acting as electrodes, thermal profiles show that temperature increases occurred between the driving and ground plane electrodes. Temperature increases throughout the tissue were generally greatest at the center of the volume treated; however, the temperature profiles within the tissue were dependent upon selection of generator frequency. Temperature measurements with thermocouples placed within an RF field are difficult at frequencies over 500 kHz. At 500 kHz, induced RF current flow in microthermocouples is low enough to provide sensitive temperature measurement during periods of heating. This observation is significant because it allows treatment temperatures to be measured during the period of heating and subsequent control of heat deposition within the treated volume. 15 refs.

L11 ANSWER 3 OF 4 INSPEC (C) 2007 IET on STN

ACCESSION NUMBER: 1989:3440296 INSPEC

DOCUMENT NUMBER: A1989-096658; B1989-058707

TITLE: Design of an interstitial capacitive hyperthermia system operating at 27.12 MHz

AUTHOR: Nadi, M.; (Univ. of Sci., Nancy, France), Marchal, C.; Prieur, G.; Tosser, A.; Mabire, J.P.

SOURCE: Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society (IEEE Cat. No.88CH2566-8), 1988, p. 1275-6 vol.3 of 4 vol. (xxxiv+xxiii+xix+xix+1937) pp., 5 refs.

Editor(s): Harris, G.; Walker, C.

Price: CH2566-8/88/0000-1275\$01.00

Published by: IEEE, New York, NY, USA

Conference: Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society (IEEE Cat. No.88CH2566-8), New Orleans, LA, USA, 4-7 Nov. 1988

Sponsor(s): IEEE

DOCUMENT TYPE: Conference; Conference Article

TREATMENT CODE: Practical

COUNTRY: United States

LANGUAGE: English

AN 1989:3440296 INSPEC DN A1989-096658; B1989-058707

AB The authors suggest an alternative interstitial method operating at 27.12 MHz. Physically, the system is essentially capacitive and the heating is induced by the conduction current between the 'hot' electrode and the ground plane. Thermographic results obtained with a two-channel homemade apparatus are presented. The simplicity and low cost of the technology, the possibility of tailoring the electrodes to the geometry and the tumor site, and the radial and longitudinal uniformity of the heating represent the major advantages of this method. A commercial prototype with eight electrodes is presented

L11 ANSWER 4 OF 4 INSPEC (C) 2007 IET on STN

ACCESSION NUMBER: 1984:2156843 INSPEC

DOCUMENT NUMBER: A1984-003604

TITLE: The relationship of temperature profiles to frequency during interstitial hyperthermia

AUTHOR: Milligan, A.J.; (Medical Coll. of Ohio, Toledo, OH, USA), Panjehpour, M.

SOURCE: Medical Instrumentation (July-Aug. 1983), vol.17, no.4, p. 303-6, 15 refs.

CODEN: MLISBY, ISSN: 0735-6757

DOCUMENT TYPE: Journal

TREATMENT CODE: Experimental

COUNTRY: United States

LANGUAGE: English

AN 1984:2156843 INSPEC DN A1984-003604

AB Regional hyperthermia is currently being investigated as a potential adjuvant to radiation therapy treatment of malignant disease. Since tumor response is directly related to treatment temperature, thermal distributions within tumors and surrounding normal tissue must be predictable under various conditions. Normal canine muscle was heated to approximately 42°C with radiofrequency current fields over the frequency range of 500 kHz to 300 MHz. With two rows of four interstitially implanted needles acting as electrodes, thermal profiles show that temperature increases occurred between the driving and ground plane electrodes. Temperature increases throughout the tissue were generally greatest at the center of the volume treated; however, the temperature profiles within the tissue were dependent upon selection of generator frequency. Temperature measurements with thermocouples placed within an RF field are difficult at frequencies over 500 kHz. At 500 kHz, induced RF current flow in microthermocouples is low enough to provide sensitive temperature measurement during periods of heating. This observation is significant because it allows treatment temperatures to be measured during the period of heating and subsequent control of heat deposition within the treated volume

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Executing the logoff script...

=> LOG H

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	117.76	117.97
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:09:05 ON 08 JUN 2007